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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/567,673	02/09/2006	Akio Komatsu	06077/LH	3999
1933 FRISHAUF. H	· 10/567,673 02/09/2006 Akio Komatsu	EXAMINER		
220 Fifth Avenue			WHITTINGTON, KENNETH	
ADTINIT		ART UNIT	PAPER NUMBER	
			2862	
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			MAIL DATE	DELIVERY MODE
			11/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/567,673	KOMATSU ET AL.			
		Examiner	Art Unit			
		Kenneth J. Whittington	2862			
Daried 6	The MAILING DATE of this communication app		I I			
Period fo		/ 10 OFT TO EVOIDE - MONTH	(0) 00			
WHI(- Exte after - If NO - Failu Any	CORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES OF THE MAILING D	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti- vill apply and will expire SIX (6) MONTHS from . cause the application to become ABANDON	N. mely filed n the mailing date of this communication. FD (35 U.S.C. § 133)			
Status						
1)🛛	Responsive to communication(s) filed on 31 O	<u>ctober 2007</u> .				
	This action is FINAL . 2b) This action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposit	ion of Claims					
4)⊠	Claim(s) 1 and 2 is/are pending in the applicati	on.				
	4a) Of the above claim(s) is/are withdraw	vn from consideration.				
·	Claim(s) 2 is/are allowed.					
	Claim(s) <u>1</u> is/are rejected. Claim(s) is/are objected to.					
	Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	r election requirement				
		relection requirement.				
Applicat	ion Papers					
	The specification is objected to by the Examine					
10)[_]	The drawing(s) filed on is/are: a) acce					
	Applicant may not request that any objection to the					
11)	Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Ex	_	•			
		arniner. Note the attached Office	ACTION OF TOIM PTO-152.			
•	under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).			
a)	☑ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority documents have been received.					
•	2. Certified copies of the priority documents	• •				
	 Copies of the certified copies of the prior application from the International Bureau 		ad in this National Stage			
* 5	See the attached detailed Office action for a list of		ed.			
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Attachmen		_				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D				
3) 🔲 Infori	mation Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal F				
Pape	r No(s)/Mail Date	6) Other:				

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DETAILED ACTION

The Amendment filed October 31, 2007 has been entered and considered. In view thereof, the objections to the Abstract and the Drawings have been withdrawn.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Okeya et al. (US4574190), hereinafter Okeya, in view of Nishimura (US4574190).

Regarding claim 1, Okeya teaches a magnetic sensor comprising:

a pair of magnetic detecting elements connected in series with each other, one of which serves as a sensing portion adapted to face a magnetic detecting medium having a magnetic substance printed thereon, and the other of which serves as a temperature-compensating portion that is not affected by

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magnetism of the magnetic substance on said magnetic detecting medium (See Okeya FIGS. 6 and 7, items 5 and 6 or 5' and 6' for detecting magnetic material);

a magnet that gives magnetic biases to said pair of magnetic detecting elements (See FIGS. 1 and 2, item 4); and

a detection circuit that applies DC voltage to between both ends of said pair of serially-connected magnetic detecting elements and detects a potential change of a common connection point of said magnetic detecting elements (See FIGS. 6 and 7, note +/- V voltage source for circuit and common node of branches of sensor circuits);

wherein said detection circuit detects a concentration of the magnetic substance printed on said magnetic detecting medium based on the detected potential change (See col. 5, lines 4-16).

However, while Okeya teaches the magnetic material being a wire shape, it does not explicitly teach the magnetic material being printed magnetic material. Nishimura teaches a magnetic sensing system for measuring printed magnetic material (See Nishimura col. 1, lines 6-14). It would have been obvious at the time the invention was made to used printed magnetic material in the apparatus of Okeya. One having ordinary skill in the art would do so because printing magnetic material is

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simply an alternative method of providing the magnetic material in order to detect relative movement of objects. Furthermore, as noted in Okeya, measuring the passage of printed magnetic material can be used to detect the authenticity of checks or money carrying such printed magnetic material (See Okeya col. 2, lines 12-54).

Allowable Subject Matter

Claim 2 is allowed. The following is an examiner's statement of reasons for allowance: regarding this claim, the prior art does not show or teach the location of the sensors and the circuit structure, particularly the circuit connections, as recited in the claim and in combination with the other features of the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US6690158, US4893027 and US4673827 each disclose inventions similar to the present invention.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth J. Whittington whose telephone number is (571) 272-2264. The examiner can normally be reached on Monday-Friday, 7:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Assouad can be reached on (571) 272-2210. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Kenneth J Whittington

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Examiner

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kjw